

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of the Claims:

Claims 1-7 (Cancelled)

Claim 8 (Currently amended) An adjustable impeller for use with a size reduction machine wherein the size reduction machine includes an impeller, an impeller drive shaft, a frusto-conical screen, and a drive mechanism wherein the adjustable impeller comprises:

- a. an impeller having at least one arm and a hub including central aperture wherein the central aperture includes a threaded portion; and
- b. an impeller drive shaft associated with the drive mechanism and having a first end and a second end associated with the drive housing wherein the impeller drive shaft includes a threaded portion that is complementary to the impeller central aperture threaded portion and wherein the impeller drive shaft first end includes an impeller to impeller drive shat lock.

Claim 9 (Cancelled)

Claim 10 (Original) The adjustable impeller of claim 9 wherein the impeller to impeller drive shaft lock includes at least one slot located on the first end of the impeller drive shaft and at least one complementary slot located on a first end of the impeller wherein at least one impeller slot becomes aligned with at least one impeller drive shaft slot to form an aligned slot at least once per each 360° rotation of the impeller with respect to the impeller drive shaft.

Claim 11 (Original) The adjustable impeller of claim 10 wherein the alignment of the impeller slot with the impeller drive shaft slot is visible to an operator.

Claim 12 (Original) The adjustable impeller of claim 10 including an impeller adjuster key having at least one key that is complementary to the aligned slot.

Claim 13 (Original) The adjustable impeller of claim 12 wherein the impeller adjuster key is reversibly attached to the impeller drive shaft first end.

Claim 14 (Original) The adjustable impeller of claim 13 wherein the impeller adjuster key is bolted to the impeller drive shaft first end.

Claim 15 (Original) The adjustable impeller of claim 11 wherein the impeller central aperture threaded portion and the impeller drive shaft threaded portion are pitched at an angle that causes a gap between the impeller arm and the frusto-conical screen to change by an incremental and repeatable distance upon rotation of the impeller with respect to impeller drive shaft.

Claims 16-19 (Cancelled)